

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-046541

(43)Date of publication of application : 16.02.1996

(51)Int.Cl.

H04B 1/18

H01P 1/205

H01P 1/213

(21)Application number : 06-193656

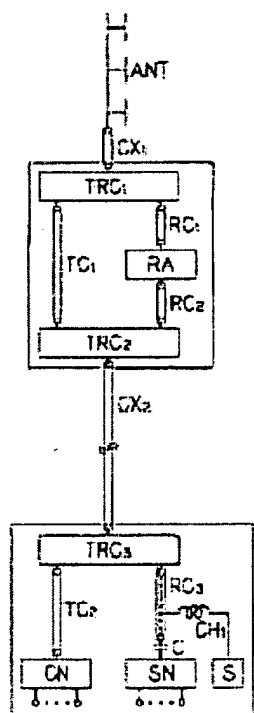
(71)Applicant : NIPPON DENGIYOU  
KOSAKU KK

(22)Date of filing :

26.07.1994

(72)Inventor : HATANAKA HIROSHI

## (54) COMMON USE DEVICE FOR ANTENNA SYSTEM



(57)Abstract:

PURPOSE: To realize the common use device for an antenna system in which number of long feeders is less at a low installation cost.

CONSTITUTION: A received power by an antenna ANT is fed to a reception amplifier RA via a 1st transmission reception combiner TRC1. Its amplified output is fed to a transmission reception common use coaxial line CX 2 via a 2nd transmission reception combiner TRC 2 and fed to plural receivers via a 3rd transmission reception combiner TRC 3, a reception coaxial line RC 3 and a branching filter SN. Outputs of the plural transmitters are combined by the combiner CN and fed to the antenna ANT via the 3rd transmission reception combiner TRC 3, the transmission reception common use coaxial line CX2, the 2nd transmission reception combiner TRC 2 and the 1st transmission reception combiner TRC1. The 1st and 2nd transmission

reception combiners and the receiver amplifier RA are provided right under the antenna. The operating power of the reception amplifier is supplied via the core wire of the reception coaxial line, the core wire of the transmission reception common use coaxial line, the 3rd transmission reception and the 2nd transmission reception combiner.